



AX-CZL-350 Vertical Curing Oven

Vertical format curing ovens from AX Equipment help reducing floor space, improving curing process consistency, increasing productivity and reducing the costs. In comparison to horizontal continuous flow ovens, AX Equipment's ovens only use the available room height. The savings in production area compared to the horizontal variants can be enormous.

The newest vertical oven model, with its stable curing temperature, improves the process consistency and subsequently the quality of the products cured. It also speeds up the production time and simplifies the production compared to curing batch ovens.

In-line setting increases productivity by allowing to eliminate manual labour needed to load and unload batch ovens. Constant opening the doors adds to the unwanted variation of the temperature.



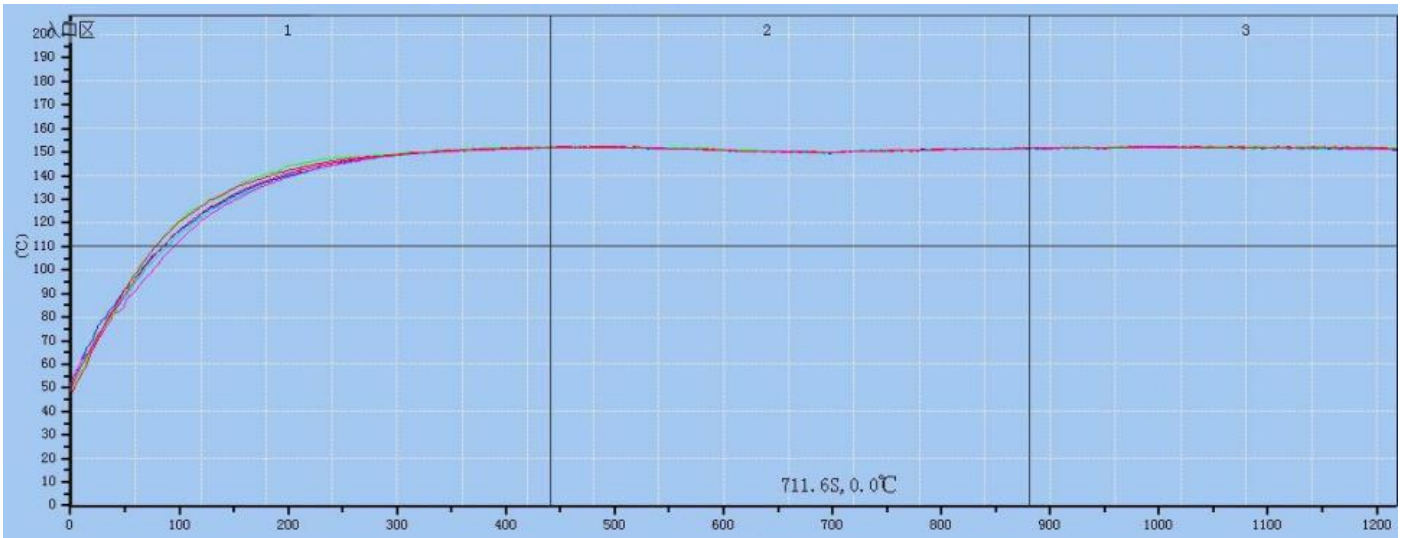
AX-CLZ-350 in-line vertical curing oven features:

- Curing temperature: up to 180°C (option 200°C).
- Ability to cure large PCB with up to 7 mm in height.
- Capable of handling heavy load up to 200 kg (100 kg for each side).
- Outstanding temperature uniformity ($\pm 1^\circ\text{C}$) as well as consistent and uniform temperature profile (see measurement results below)
- Flat, low-vibration loading conveyor with improved mechanism.
- Curing cycle time of up to one hour in footprints as small as 1830 mm.
- Customized heights for curing space vary from 800 mm to 1285 mm.
- Each vertical system consists of at one transport tower, each of which has an uplink and downlink.
- Six-zone heating with independent time and temperature controls for single and double step profiling.
- Stainless steel mechanism for high temperature strength and low maintenance.
- Class 1,000 option for clean environment.
- Six-thermocouple profiling capability and optional pyrometers.
- Fixture width adjustable from 140 to 330 mm for PCBs, Auer boats, JEDEC trays and recalculating pallets.
- Pitch between product carriers may be specified from 140 mm to 330 mm for both width and length (maximum of 50 mm width and 800 mm length).
- User-friendly software with HMI interface with touch screen controls.
- Magazine loader interface.
- SMEMA connectivity.
- CE certified by TÜV.
- Customization options on demand.



Advantages of AX Ovens:

- Improved rigidity (in design, materials and structure)
- Stronger motor and chains for motion consistency and precision
- Advanced chain positioning mechanism and synchronization to improve accuracy, preventing spill overs and improved board levelling, achieved by unique high-resolution chain adjustment mechanism (patent pending)
- Exceptionally uniform cure profile



AX-CZL-350 Technical Specifications:

Feeding method:	Automatic connection with the production line
Loading belt height:	900 ± 30 mm
Surface available for the product:	W 50 – 350, L 100 x 380 mm (customization options)
Index spacing between oven trays:	19.05 - 38.1 mm
Stock way:	Vertical storage type
Save the quantity:	50 - 200 pieces of tooling (optional)
Curing time:	10 – 120 min (adjustable)
Heating time:	35 min from room temperature
Temperature control method:	PID + SSR
Number of heat zones:	6
Heating power per zone:	4 – 6 kW
Temperature range:	Room temperature - 200 °C
Temperature uniformity at 170 °C:	± 1 °C
Start / operating power:	25 kW/ 15 kW
Control System:	PLC + microcomputer control
Abnormal alarm:	Three-color lights, the screen prompts the fault point
Dimensions:	L1970 x W1690 x H2000 mm
Power supply:	380V, 3-phase 5-wire system
Weight:	1800 k



AX Equipment Pte Ltd
7 Gambas Crescent #09-08
ARK @ Gambas
Singapore 757087
Tel: +65-6451-1857
www.ax-equipment.com